

ABSTRACT OF THE DISCLOSURE

An actuator according to the present invention includes: a rotor that includes a magnet that has a cylindrical shape, and an outer peripheral surface 5 alternately magnetized into different poles in a peripheral direction, and a soft magnetic member that is fixed to an inner diameter portion of the magnet; a coil that is concentric with the magnet, and arranged adjacently to the magnet in an axial 10 direction thereof; and a stator that has a magnetic pole portion opposed to the outer peripheral surface of the magnet, in which the soft magnetic member composing the rotor and the stator are excited by the coil.